


**Number(s):**  
**JP4197182-A** 

**Title:**  
DNA coding alkali-protease Ya enzyme - has good alkali and surfactant resistance and improves detergency

**Patent Assignee Name(s) and Code(s):**  
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**Derwent Primary Accession Number:**  
1992-288440 [54]

**Abstract:**  
The following are claimed a DNA coding (I) enzyme, pref. specified by a given 433 aminoacid sequence and a given 1299 aminoacid DNA sequence, a plasmid DNA contg. the above DNA; a microbe in which the above plasmid DNA is introduced; and the prepn. of (I) in which the above microbe is cultured and (I) is collected from the culture, the microbe being pref. a Bacillus genus bacterium.

USE/ADVANTAGE - Ya enzyme has good alkali and surfactant resistance and improves detergency.

In an example probes N and C are prepd. Bacillus sp. Y is cultured and the chromosome DNA is prepd. It is digested and southern hybridised with respective probes N and C. pBR328 is digested and introduced into E coli HB101. DNA is extracted from it and southern hybridised with respective probes N and C to give respectively pYX1 and pYB2. Their base sequence are determined. A promoter is obtd. from Bacillus licheniformis LB8907. A plasmid which can express Ya enzyme is prepd. Ya enzyme is expressed. A transformant holding a plasmid pUB8A produces alkaliprotease and Ya enzyme in high efficiency.

**International Patent Classification:**  
C11D-003/386; C12N-009/54; C12N-015/57; C12R-001:07

**Derwent Class:**  
B04 (Natural products and polymers, testing, compounds of unknown structure); D16 (Fermentation industry)

**Derwent Manual Code(s):**  
B04-B02B1; B04-B02C3; B04-B04A1; D05-C03C; D05-H04; D05-H12

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
JP4197182-A	16 Jul 1992	C12N-015/57	199235	Pages: 17	

**Application Details and Date:**

JP4197182-A      JP327110      28 Nov 1990

**Priority Application Information and Date:**

JP327110      28 Nov 1990